

DaimlerChrysler AG

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Patent Claims

1. A device for radio-based issuing of warnings of hazards to the driver of a vehicle having a data receiver (10), wherein the data receiver (10) receives
10 data from at least one data transmitter (15) of at least one other vehicle, and evaluates the received data,

wherein the received data comprises information about the position, the speed and the direction of travel of
15 the transmitting vehicle, characterized in that, from the received data of the transmitting vehicle and from information relating to the position of the receiving vehicle, from speed data and direction of travel data of the receiving vehicle, a relevance measure is
20 determined in the receiving vehicle, which relates to whether the transmitting vehicle is located on a section of road lying ahead of the receiving vehicle, wherein a chronological profile of the relevance measure is determined by repeatedly determining the
25 relevance measure.

2. The device as claimed in claim 1, characterized in that the chronological profile of the relevance measure is stored in the receiving vehicle.

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3. The device as claimed in claim 1 or 2, characterized in that incorrect warnings are detected by means of the chronological profile of the relevance measure.

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4. The device as claimed in one of the preceding claims, characterized in that the received data

comprises a position chain of the transmitting vehicle.

5 5. The device as claimed in one of the preceding
claims, characterized in that the future route of the
receiving vehicle is estimated in advance in the
receiving vehicle.

10 6. The device as claimed in one of the preceding
claims, characterized in that the relevance measure is
determined from the received data of the transmitting
vehicle and the future route of the receiving vehicle
estimated in advance.

15 7. The device as claimed in one of the preceding
claims, characterized in that the information is output
as a function of the determined relevance measure.

20 8. The device as claimed in one of the preceding
claims, characterized in that the information output is
terminated as soon as it has been detected as an
incorrect warning.

25 9. The device as claimed in claim 8, characterized in
that after the information output has been terminated
the driver is informed by a further information output
that the previously signaled hazard is no longer
relevant to him.

30 10. The device as claimed in one of the preceding
claims, characterized in that data is received from
data transmitters (15) of a plurality of vehicles and
is evaluated.

35 11. The device as claimed in claim 10, characterized
in that the chronological profile of the relevance
measure is determined in each transmitting vehicle from
which data is received.

12. The device as claimed in one of the preceding
claims, characterized in that the device for radio-
based issuing of warnings of hazards to the driver
5 comprises a data transmitter (15) which, when
activated, outputs data to issue warnings of hazards to
other vehicles, wherein the transmitted data comprises
information about the position, the speed and the
direction of travel of the transmitting vehicle.